Green/Duwamish and Central Puget Sound Watersheds 2009 Three-Year Work Plan

Watershed Questions to Answer for Three-Year Work Programs

What are the actions and/or suites of actions needed for the next three years to implement your salmon recovery chapter as part of the regional recovery effort?

- Please see the attached spreadsheet.
- Policy MS-1 in the WRIA 9 habitat plan recommends distributing funding to 40% in the transition zone, 30% for rearing habitat, and 30% for spawning habitats. Rearing habitat is provided in the Middle Green River, Lower Green River, Duwamish River and Marine Nearshore. Spawning habitat is provided in the Middle Green River and upper Lower Green River.
- Efforts in the transition zone are focused on North Wind's Weir (construction 2009), and Duwamish Gardens (acquisition recently completed, preparing for design phase).
- Projects previously begun in the lower Green as acquisition or feasibility are being supported through design, permitting and construction (e.g., Riverview Park, Downey Farmstead, Mill Creek).
- An evaluation of previous efforts determined that there had been a lack of effort in the nearshore. Recent efforts have been to increase the amount of protection and acquisition in the nearshore for juvenile rearing and spawning fish foraging. An update to the previous 3-year workplan is the addition of four projects in Des Moines and Federal Way. The project proponents are moving forward with the projects and these have been added to the workplan in order to coordinate and support the projects.
- Three projects currently being designed and constructed through the King County Flood Control Zone District are included, although the project is completely funded through the district. Coordination with WRIA 9 staff is ensuring that the projects include benefits to salmon.
- Recent flood events and concerns about Howard Hansen dam have accelerated levee setback and repair projects, particularly within Auburn, Kent, Renton and Tukwila. The Upper Russell Road project was added to this year's workplan in response to concerns about the certification of the levee. This is an Ecosystem Restoration Project in cooperation with the U.S. Army Corps of Engineers.
- Our goal is to develop a strategy for monitoring project effectiveness for the mainstem river and nearshore projects. Once this strategy is reviewed and adopted by the Implementation Technical Committee and Forum, monitoring will be coordinated with other organizations and funding pursued.

What is the status of actions underway per your recovery plan chapter? Is this on pace with the goals of your recovery plan?

We are behind our 3 year benchmark for implementing transition zone projects. This is primarily due to: lack of funding, property expense and availability, and inability to compete against private sector offers. Otherwise, efforts have made and are making progress on main stem levee setback projects, and marine nearshore acquisition and restoration projects. Major projects in the upper watershed sponsored by Tacoma Public Utilities (TPU) and the Army Corp of Engineers (ACOE) are also making progress. These projects include construction of the ACOE fish ladder facility, the TPU fish haul facility, ACOE gravel and wood supplementation programs immediately below the TPU headworks dam, and removal of some fish barriers in the upper watershed.

What is the general status of implementation towards your habitat restoration, habitat protection, harvest management, and hatchery management goals? Progress can be tracked in terms of 'not started, little progress, some progress or complete' or in more detail if you chose.

Habitat Restoration and Protection

The WRIA 9 3 Year Work Schedule has been paired down to those projects that are likely to be started or completed within the 3-year window. We have adopted a project prioritization and sequencing methodology that was used to evaluate all of the WRIA 9 priority projects. The highest priority projects from this effort will be the focus of future restoration and acquisition efforts.

H-Integration Status in WRIA 9

The WRIA 9 Forum of Local Governments approved the creation of an Implementation Technical Committee (ITC) in January 2007. Importantly, the ITC includes representatives from both co-managers (Washington State Department of Fish and Wildlife and the Muckleshoot Indian Tribe), as well Tacoma Public Utilities. All four "H's" are therefore represented at the WRIA 9 table for the first time since work began on developing an ecosystem approach to recovering Chinook salmon in the Green-Duwamish system. A sub group of the ITC has been engaged since October 2007 in addressing H-integration, specifically the "6-Steps" and the H-integration tables. At this point (May 2009) drafts of the first 3 steps of H-integration have been completed for WRIA 9. A significant ITC Work Program task for 2008 is developing an H-integration strategy for WRIA 9. Consistent with the Puget Sound regional H-integration approach, WRIA 9 will address goals, objectives, and steps for advancing H-integration as follows:

Goals of H-Integration Process

- Develop integrated strategies and suites of actions among the H-sectors that are consistent with predictions of moving salmon populations towards short, moderate, and long-term recovery goals
- Help decision-makers clearly see the interaction and cumulative effects of actions among the H-sectors

Six Steps in Advancing H-Integration...

We are following the six step H-integration process and are almost complete with the fifth step of documenting the rationale, implementation steps and expected outcomes. This step is expected to

be completed in January 2010 when the WRIA 9 Implementation Technical Committee meets again. Step 6, building and implementing a verification, effectiveness and accountability system is dependent upon additional funding.

What are the top implementation priorities in your recovery plan in terms of specific actions or theme/suites of actions? How are these top priorities being sequenced in the next three years? What do you need to be successful in implementing these priorities?

- The top implementation priorities in our recovery plan is focusing our efforts at the appropriate ecological scale. For the riverine environment, we are attempting to coordinate efforts at a larger scale in order to work at a scale to improve the habitat conditions. In the nearshore environment, the drift cell is being used as the appropriate unit for work.
- We are working with project sponsors to identify projects that are within our priority
 project list and then assisting them with developing a funding strategy so that the
 appropriate grants can be pursued. This ensures that projects move rapidly towards
 completion and do not risk losing existing grants while the required match is being
 sought.

Do these top priorities reflect a change in any way from the previous three-year work program? Have there been any significant changes in the strategy or approach for salmon recovery in your watershed? If so, how and why?

- Our focus has changed slightly based upon the project prioritization process by the Implementation Technical Committee in winter 2008. As currently active projects are completed, projects that rated high in the process will be added to future workplans.
- Three projects currently being designed and constructed through the King County Flood Control Zone District are included, although the project is completely funded through the district. Coordination with WRIA 9 staff is ensuring that the projects include benefits to salmon.
- Recent flood events and concerns about Howard Hansen dam have accelerated levee setback and repair projects, particularly within Auburn, Kent, Renton and Tukwila. The Upper Russell Road project was added to this year's workplan in response to concerns about the certification of the levee. This is an Ecosystem Restoration Project in cooperation with the U.S. Army Corps of Engineers.

What is the status or trends of habitat and salmon populations in your watershed?

Based upon WDFW adult return-estimates of the Green River (Duwamish) Chinnok spawning population, the recent total escapement appears to be consistent with estimates dating back to 1986. The total escapement for recent years is estimated to be 4,089 in 2005, 10,157 in 2006, and

7,186 in 2007. The range from 1986 to present is 1,840 (1982) to 21,402 (2001). See: http://wdfw.wa.gov/webmaps/salmonscape/sasi/full_stock_rpts/1160.pdf.

Are there new challenges associated with implementing salmon recovery actions that need additional support? If so, what are they?

- The continuing challenge of the lack of funding and capacity, for both the lead entity and project sponsors, continues to limit salmon habitat recovery efforts in the region. In addition, there is very limited funding for monitoring efforts, which is the key to adaptive management.
- As a practical matter, few capital restoration projects can be started and completed in 3 years. The projects listed in the Three Year Work Schedule include those that can be started within 3 years but may not be completed in 3 years, as well as those in progress.

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2009 - WRIA 9 Gre	en/Duwamish ar	nd Central Puget	Sound Water	sl																			
				Project Inform	mation and Ho	w it Relates t	o the Recove	ry Plan					,		Project Pla	nning	1	,	1		Project Cost	and Sponsor	
Project Type Capital Projects	Plan Category	Project Name	Project Description (brief description)	Priority tier of project	Limiting Factors	Document Reference for limiting factor (Recovery Plan, Chapter 3 - Habitat Protection)	i.e. riparian, estuary river	Activity Type (HWS items - i.e. fish passage, instream flow, sediment reduction, etc.)	(restore 30 Pacres of S	Primary Species Benefiting	Secondary Species Benefiting	Current Project Status (Conceptual, Feasibility completed, land acquisition completed, design completed, permitting construction completed)	2009 Activit to be funded		2010 Activity to be funded		2011 Activity to be funded	2011 Estimated	Likely End Date	Likely Sponsor	Total Cost of Project	Local share or other funding	
Habitat																							
Restoration	Capital	North Wind's	Shallow water	1	Reduced		Tranistions	Shallow water	2.1 acres	Chinook	Bull trout,	Construction in	Construction	n, \$85,000	1				2011	King County	\$3,200,000	\$1,974,000	SREB
		Weir (DUW-10)			habitat capacity. Competition with hatchery origin juveniles		zone estuary	habitat creation, riparian	shallow water habitat	allillook	steelhead	progress	monitoring	,, \$65,000					2011	. King County	\$3,200,000	\$1,974,000	SKID
		Riverbend Hill (Project DUW- 6)	Reshape and revegetate the riverbank at RM 7.2 - 6.9, right bank, including relocation of S 115th Street. Setback revetment and placement of LWD	6	Reduced habitat capacity. Competition with hatchery origin juveniles		Transition zone estuary	Streambank restoration, riparian revegetation, LWD placement,	1500 feet of streambank restoration.	Chinook	Bull trout, steelhead	Feasibility	Feasibility		Design and permitting	300,000	Construction	unknown	2012	Tukwila	\$2,500,000	\$1,000,000	unknown
		Duwamish Gardens Shallow Water Habitat Creation at RM 7.0 (DUW-7)	Restore estuarine transition zone habitat to provide critica habitat for juvenile salmon in the Duwamish Transition Zon	1	Reduced habitat capacity. Competition with hatchery origin juveniles		Transition zone estuary	Shallow water habitat creation, riparian	1.5 acres shallow-water habitat creation	Chinook	Bull trout, steelhead	Feasibility		Funding provided through WDFW Engineering Assistance and PSAR 5% capacity funding	Design and permitting					Tukwila	unknown	unknown	SRFB, KCD, City of Tukwila, ALEA
		Duwamish Riverfront Revival/South Park Bank Restoration and Shallow Water Habitat Creation at RM 3.8-3.7	water and riparian habita		Reduced habitat capacity. Competition with hatchery origin juveniles		Transition zone estuary	Shallow water habitat creation, riparian	Two acres of C shallow-water habitat	Chinook	Bull trout, steelhead	Conceptual											
		Riverton Creek Flapgate Removal and Restoration at RM 6.6 (DUW- 8)	flatpgates and restore an open water connection Creek to the Duwamish River.		Reduced habitat capacity. Competition with hatchery origin juveniles		Transition zone estuary	Fish passage	fish access to over 1200' linear feet of off-channel, shallow water habitat.	Chinook		Feasibility (funded in 2008), activity on- going			Design and permitting		Construction	500,000		. Tukwila			
		Riverside Estates Levee Setback (LG-1 at RM 28.8	Levee setback benching, LWI placement and revegetation)	Altered stream flow, channel structure, complexity, riparian , LWD		Instream	Instream flow	Re-establish C 1500 feet of side channel	Chinook	Bull trout, steelhead	Design	Design	Funded through King County Flood Control Zone District	Construction (levee setback)	300,000	Construction	2,500,000	0 2012				

Riverview Park Restoration at RM 22.7(LG-7		Altered stream flow, channel structure, complexity, riparian , LWD	Instream	Instream flow	Chinook	Steelhead, bull trout	Design and permitting	Design and \$350,0 permitting	OOO Construction	2,200,000	Revegetation, Monitoring	50,000	2011		
Downey Farmstead Restoration Project (LG-7)	A feasibility study is currently udnerway to determine options for modifiying road, reconnecting the upland to the river and restoring riparian babitat	Altered stream flow, channel structure, complexity, riparian , LWD	Instream	Instream flow	Chinook	Steelhead, bull trout	Feasibility	Funded in 2008	Design and permitting	300,000	Construction	TBD	2013	Kent	SRFB, King Conservation District, City of Kent
Desimone Levee Phases 4 (LG-13)	Levee setback, 1	Altered stream flow, channel structure, complexity, riparian , LWD	Instream	Instream flow	Chinook	Bull trout	Design		Engineering and design	898,607	Construction	1,864,976	2011	King County Flood Control Zone District (KDFCZD)	KCFCZD
Mill Creek Floodplain Wetland and C Channel Habit Rehabilitation (LG-7)	at adjacent	Altered stream flow, channel structure, complexity, riparian , LWD	Instream	Instream flow	Chinook	Steelhead, bull trout	Feasibility	Design and \$300,000 permitting	Construction	1,400,000	Monitoring	50,000	2011	Kent	SRFB, King Conservation District, City of Kent
Mill Creek (LG 8)_	Removal of invasive and non-native plant species, planting native riparian vegetation, strategic replacement of Large Woody Debris (LWD) and realignment of the stream.	Altered stream flow, channel structure, complexity, riparian , LWD	Instream	Instream flow	Chinook	Steelhead, bull trout	Design and permitting	Design and permitting \$200,000	Construction	TBD	Montitoring	50,000		Auburn	SRFB, King Conservation District, City of Auburn
Briscoe Off- channel habita rehabilitation between RM 16.1 and 15.8 (LG-12)	Remove 1 armoring on	Altered stream flow, channel structure, complexity, riparian , LWD	Instream, riparian	Riparian, instream flow	Cinook	Steelhead, bull trout	Design and permitting	Design and permitting	Construction		Construction		2011	KCFCZD	KCFCZD
Mainstem Maintenance, including Uppe Russell Road (LG-10)	Habitat 1 rehabilitation	Altered stream flow, channel structure, complexity, riparian , LWD	Instream	Instream flow	Chinook	Steelhead, bull trout	Design and permitting	Design and permitting \$150,000	Construction	1,075,211	Monitoring	500,000	2012	KCFCZD	

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1		Excavate side 2	Channel	Instream,	Riparian,	Chinook	Steelhead,	Feasibility and		Design and	150,000	Construction	900,000	2013	King County,	1	!	
	Floodplain	channel	structure/com	riparian	instream flow		bull trout	design		permitting					King	1	Į.	
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	Side Channel	wall-based side													District, SRFB			ĺ
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	Restoration	mainstem, and																ĺ
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		channel migration																ĺ
	Newaukum	Continue 1	Riparian areas	Instream,	Riparian,	Chinook	Steelhead,	Conceptual		Design and	150,000	Construction	500,000	2011				<u> </u>
	Creek Mouth	restoration	and LWD	riparian	instream flow	CHIHOOK	bull trout	Сопсершан		permitting	130,000	Construction	300,000	2011		1	Į.	
	Restoration	efforts	recruitment	прапап	mstream now		buil trout			permitting								ĺ
1	Between Creek	upstream of	recruitment														!!	İ
	Miles 0.0 and	Phase I																ĺ
	4.3, Phase II																	ĺ
	(MG-18)																	ĺ
	Fenster Levee	Remove 1	Channel	Instream,	Riparian,	Chinook	Chinook	Construction	Construction 500,000	Monitoring		Complete		2011	Auburn		\$75,000	Auburn, King
	Setback, 1B	levees, lower	structure/com	riparian	instream flow													Conservation
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I		and channel								1		1				1	Į.	1
		migration		1			1				15000					1225000		
1 I	Pautzke Levee	Remove 1	Channel	Instream,	Riparian,	Chinook	Steelhead,	Construction	Construction \$500,000	Monitoring	15,000	Complete	Т	2011	King County	1,100,000	\$255,000	King County,
	Setback (MG-	levees, lower	structure/com	riparian	instream flow		bull trout									1		SRFB, King
l	18)	the elevation	plexity															Conservation
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		migration																
	Fenster Levee	Remove 1	Channel	Instream,	Riparian,	Chinook	Steelhead,	Design	Design, \$20,000	Construction	500,000	Monitoring	20,000		Auburn	650,000	\$150,000	SRFB, King
l	Setback, 2B	levees, lower	structure/com	riparian	instream flow		bull trout		permitting									Conservation
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		migration																
l	Big Spring	Construct new 1	Channel	Streamflow		Chinook	Coho	Design completed	Construction \$2,200,000	Construction		Monitoring			King County	\$3,200,000	\$1,000,000	
	Creek	channel to	structure/com	patters, high	h riparian					1		1				1		Conservation
	Restoration	replace ditch.	plexity	water						1		1				1		District, King
	(MG-7)	Connect		temperature	e					1		1				1		County,
		coldwater								1		1				1	Į.	Enumclaw
]		springs to								1		1				1	Į.	1
1 I		Newaukum								1		1				1	Į.	1
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]	Functioning	Creosote 1	Loss of	Nearshore	Nearshore	Chinook		Design in progress	Design	Construction	200,000	Revegetation			King County	\$275,000	\$75,000	SRFB, King
j l	Nearshore	bulkhead	habitat	beach			fish			1		1			Ī	1	!	County,
1	Habitat	removal and								1		1				1		Conservation
	Protection on	native plant		1				1		1		1			Ī	1	Į.	Futures
	Vashon/Maury	revegetation								1		1				1	Į.	1
l l	Island - Piner Point (NS-17)											1				1	'	1
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]	Ellisport Creek		Altered	Instream,	Fish passage	Chinook	Forage fish	Acquisition/negotiati	Acquisition \$20,000	Cleanup	500,000	Culvert	500,000	2012	King County	\$1,000,000		King County,
	Fish Passage	passage, beach	stream flow	riparian				on of donation of		1		removal			Ī	1	Į.	King
1	Improvements	condition and						parcel		1		1				1		Conservation
j l	on Vashon	cleanup								1		1			Ī	1	Į.	District
I I	Island (NS-9)	hydrocarbons								1		1			Ī	1	!	1
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i I	Dockton Road	Remove road 1	Loss of habitat	Nearhsore	Nearshore	Chinook	Orca, forage	Conceptual		Feasibility		1			Ī	1	Į.	1
						1	fish	1	1	1	1							1
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	Removal and Feeder Bluff	fill. Acquire	Habitat	embayment													ĺ	
	Removal and Feeder Bluff Restoration on	fill. Acquire upland	Парісас	embayment													1	
	Removal and Feeder Bluff Restoration on Vashon Island	fill. Acquire upland properties if	liabitat	embayment													1	
	Removal and Feeder Bluff Restoration on	fill. Acquire upland	Habitat	embayment														

	Burien Seahurst Continue 1	Loss of	Nearshore	Nearshore	Chinook	Orca, forage	Design and	Design and	\$100,000	Construction	8,000,000	Monitoring	100,000	2012	Burien	\$8,250,000	\$2,500,000 SRFB, ACOE,
	Park Shoreline shoreline	habitat	beach			fish	permitting	permitting	'				,				King
	Restoration, restoration Phase II (NS- actions																Conservation District, ESRP,
	19) conducted in																Burien
	southern																
	portion of Seahurst Park																
	in Burien by																
	removing a																
	portion of shoreline																
	armoring,																
	restoring																
	beach slopes and riparian																
	revegetation																
	Raab's Lagoon Feasibility to (NS-14) remove all or	Loss of habitat	Nearshore Embayment	Nearshore	Chinook	Orca, forage fish	Feasibility										
	part of	Habitat	Linbayinenc			11511											
	bulkhead					1			1								
	Beaconsfield on Feeder bluff the Sound (NS- restoration	Loss of habitat	Nearshore Beach	Nearshore	Chinook	Orca, forage fish	Acquisition/negotiati on of donation of	Feasibility	150,000	Construction	250,000	Monitoring	100,000	2012	Normandy Park		SRFB, King Conservation
	17) through	Habitat	Deach			11311	parcels								I di K		District,
	bulkhead																Normandy
	removal Marine View Erosion 1	Loss of	Nearshore	Nearshore	Chinook	Orca, forage	Design completed	Construction	16,000	construction		Maintenance		2012	Cascade Land	400,000	Park, ESRP 15,000 King
	Park (NS-17) control,	habitat	beach	rearshore	Cimiook	fish	Design completed	(revegetation		(revegetation)	rameenance		2012	Conservancy	100,000	Conservation
	noxious weed)									District,
	removal and revegetation																Community Salmon Fund
	with native																
	plants	Loss of	Nearshore	Nearshore	Chinook	Orca, forage	Feasibility	Docian and	+								
	Pocket Estuary of Massey	habitat	beach	Nearshore	Chillook	fish	reasibility	Design and permitting									
	Restoration in Creek estuary.							,									
	Des Moines (NS-																
	Des Moines Restore parts 1	Loss of	Nearshore	Nearshore	Chinook	Orca, forage	Feasibility	Design and									
	Creek Mouth of Des Moines	habitat	beach			fish		permitting									
	Creek estuary. Dash Point Improve 1	Loss of	Nearshore	Nearshore	Chinook	Orca, forage	Feasibility	Design and									
	State park stream mouth	habitat	beach	i caronore	- I - I - I - I - I - I - I - I - I - I	fish	, casisine,	permitting									
	Pocket Estuary of unnamed																
	Restoration in creek that Federal Way enters Puget																
	(NS-16) Sound through																
	Dash Point State Park.																
	McSorley Creek Remove rock 1	Loss of	Nearshore	Nearshore	Chinook	Orca, forage	Feasibility	Design and									
	Pocket Estuary armoring along	habitat	beach			fish		permitting									
	Restoration in McSorley Creek Des Moines (NS-upstream from																
	15) mouth																
Acquisition for	Southest Drift Acquisitions 1	Loss of	Nearshore	Nearshore	Chinook	Orca, forage	Conceptual			Acquisition/ne	e 2,500,000				Normandy	2,500,000	375,000 Conservation
Restoration	Cell (NS-11) needed adjacent to	habitat	beach			fish				gotiation					Park		Futures, SRFB, King
	Beaconsfield in																Conservation
	order to																District,
	complete																Normandy Park, ESRP
	bulkhead removal and			1													Park, ESKP
	protect feeder			1													
	bluffs. Functioning Acquisition 1	Loss of	Nearshore	Nearshore	Chinook	Orca, forage	Concentual	1	+	Design and	150.00	00 Construction		2012	King County		
	Nearshore needed in	habitat	beach		Cilliook	fish	элеерсии			permitting	130,00	. Sonoti detion		2012	ig County		
	Habitat order to			1													
	Protection on complete Vashon-Maury restoration]													
	Island -Dockton (one parcel)																
	(NS-17)			1													
Acquisition for	Functioning Acquisition of 1	Loss of	Nearshore	Nearshore	Chinook	Orca, forage	Acquisition	Acquisition	250,0	00 Acquisition		Acquisition		2018	King County	10,000,000	2,500,000 Conservation
Protection	Nearshore parcels to	habitat	beach	1		fish	•					'			l -		Futures, King
	Habitat preserve an Protection on entire drift cell]													Conservation District, ALEA,
	Vashon-Maury and protect			1					1								SRFB, ESRP
	Island - <u>Point</u> marsh on			1					1								
	Heyer (NS-17) Vashon-Maury Island								1								
	Isiana																

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land uses	
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Increase public awareness	
about what	
healthy streams	
and rivers look	
like and how to	
enjoy recreating on	
recreating on them them	

Instream Flow Protection									
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	Monitoring Seahurst park								
	South Shorelin Monitoring	е							
Stock Monitoring									
Research									
Other	Ecological Economics analysis								
Total Non-Capital Need:									
									
Priority Projects and Programs Benefiting Non- Listed Species									
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Total Non-Listed Species Need:									